

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of )  
**SUDIPTA SEAL, ET AL.** )  
Serial No: TBA )  
Filed: Concurrently Herewith )  
For: **SYNTHESIS OF TETRAGONAL PHASE STABILIZED NANO AND SUBMICRON** )  
**SIZED NANOPARTICLES** )

**INFORMATION DISCLOSURE STATEMENT**

Honorable Commissioner of Patents  
and Trademarks  
Washington DC 20231

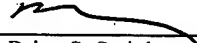
Sir:

Pursuant to the requirements of 37 CFR 1.97 and 1.98, Applicant hereby requests that the references listed in the attached form PTO-1449 be considered and made of record in the above-identified application.

Favorable consideration of the application at an early date is respectfully solicited.

Respectfully submitted,

By:

  
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Date:

9/5/03

**US DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE**

APPLICANT: **SUDIPTA SEAL**  
FOR: **SYNTHESIS OF TETRAGONAL PHASE STABILIZED NANO AND SUBMICRON SIZED NANOPARTICLES**

**LIST OF ART CITED BY APPLICANT****U.S. PATENT DOCUMENTS**

EXAMINER	DOCUMENT NO.	NAME	DATE	CLASS	SUBCLASS
AA	5,472,795	ATITA	12/5/1995	428/660	
AB	5,800,934	QADRI	09/01/1998	428/633	
AC	6,007,926	PROVENZANO	12/28/1999	428/633	
AD	6,017,839	MAJUMDAR	01/25/2000	501/104	
AE	6,203,768 B1	MC CORMICK	03/20/2001	423/1	
AF	6,376,590 B2	KOLB	04/23/2002	524/413	
AG	6,387,981 B1	ZHANG	05/14/2002	523/117	
AH	6,482,537 B1	STRANGMAN	11/19/2002	428/633	

**PATENT APPLICATION PUBLICATIONS**

NONE

**FOREIGN ART**

NONE

**OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)**

OA	(2003) S. Shukla, S. Seal, R. Vij & S. Bandyopadhyay. POLYMER SURFACTANT INCORPORATED CERAMIC OXIDE NANOPARTICLES. Rev. Adv. Matter. Sci 4, pp. 109
OB	(2002) S. Shukla, S. Seal, R. Vij & S. Bandyopadhyay. EFFECT OF HPC AND WATER CONCENTRATION ON THE EVOLUTION OF SIZE, AGGREGATION AND CRYSTALLIZATION OF SOL-GEL NANO ZIRCONIA. Journal Nanoparticle Research 4: pp. 553-559
OC	(2003) S. Shukla, S. Seal, VanFleet. SOL-GEL SYNTHESIS AND PHASE EVOLUTION BEHAVIOR OF STERICALLY STABILIZED NANOCRYSTALLINE ZIRCONIA. Journal of Sol-Gel Science and Technology 27, pp.119-136
OD	(2002) S. Shukla, S. Seal, R. Vij, S. Bandyopadhyay, & Z. Rahman. EFFECT OF NANOCRYSTALLITE MORPHOLOGY ON THE METASTABLE TETRAGONAL PHASE STABILIZATION IN ZIRCONIA. Nano Letters Vol. 2, American Chemical Society pp. 989-993
OE	(2003) S. Shukla, S. Seal, R. Vij, S. Bandyopadhyay. REDUCED ACTIVATION ENERGY FOR GRAIN GROWTH IN NANOCRYSTALLINE YTTRIA-STABILIZED ZIRCONIA. Nano Letters Vol. 2, No. 9, American Chemical Society pp. 397-401